

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER P57960  U.S. APPLICATION NO: (If known, see 37 CFR 1.5) <b>10/570211</b>
INTERNATIONAL APPLICATION NO. PCT/KR2004/001386	INTERNATIONAL FILING DATE 10 June 2004	PRIORITY DATE CLAIMED KR 10-2003-0071615
TITLE OF INVENTION <p style="text-align: center;">AUTOMATIC CIRCULATION DEVICE OF WARM WATER</p>		
APPLICANT(S) FOR DO/EO/US <p style="text-align: center;">YOUNG-BOG RHO et al.</p>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input checked="" type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p style="margin-left: 40px;">Items 11 to 20 below concern document(s) or information included:</p> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <b>PTO-1449</b> 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. (contained in the Declaration) 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

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20. Other items or information:  PTO-1449 and photocopies of the references cited in the PTO-1449 WO 2005/038356 A1																
The following fees have been submitted		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">CALCULATIONS</th> <th style="width: 40%;">PTO USE ONLY</th> </tr> </table>	CALCULATIONS	PTO USE ONLY												
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21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 300.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 300.00													
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23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 500.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 500.00													
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<b>TOTAL OF 21, 22 and 23 =</b>																
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Total Sheets</th> <th style="width: 20%;">Extra Sheets</th> <th style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>* - 100 =</td> <td>/50 =</td> <td></td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	* - 100 =	/50 =		x \$250	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ n/a</td> <td style="width: 40%;"></td> </tr> </table>		\$ n/a					
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Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ n/a</td> <td style="width: 40%;"></td> </tr> </table>	\$ n/a													
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<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.																
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Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ N/A</td> <td style="width: 40%;"></td> </tr> </table>	\$ N/A													
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 40.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 40.00													
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<b>TOTAL FEES ENCLOSED =</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 540.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 540.00													
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10/576211

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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10/576211 17 APR 2006

- a. ☒ A check in the amount of \$ 500.00 (#50710) to cover the above fees is enclosed. (Check #50711 for \$40.00)
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4943. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

  
SIGNATURE

Robert E. Bushnell

NAME

27,774

REGISTRATION NUMBER

17 April 2006  
Date

Customer No. 008439

Attorney's Docket No. P57960  
PCT/KR2004/001386 filed 10 June 2004

AP20 Res 4/17/06 PTO 17 APR 2006

PTO/SB/17 (08-00)

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<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <p style="margin: 5px 0;">Patent fees are subject to annual revision.</p>		Complete If Known																																																																																																																																																																																																																																																																																			
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<td>Application for renewal, per class</td> <td>\$</td> </tr> <tr> <td>6403/7403</td> <td></td> <td></td> <td>\$100</td> <td>Ex parte appeal, per class</td> <td>\$</td> </tr> <tr> <td colspan="6" style="text-align: center;"><b>PETITION</b></td> </tr> <tr> <td>1462</td> <td></td> <td></td> <td>\$400</td> <td>Petitions to Director (Group I)</td> <td>\$</td> </tr> <tr> <td>1463</td> <td></td> <td></td> <td>\$200</td> <td>Petitions to Director (Group II)</td> <td>\$</td> </tr> <tr> <td>1464</td> <td></td> <td></td> <td>\$130</td> <td>Petitions to Director (Group III)</td> <td>\$</td> </tr> <tr> <td>1452</td> <td>\$500</td> <td>2452</td> <td>\$250</td> <td>Petitions to revive unavoidably abandoned application</td> <td>\$</td> </tr> <tr> <td>1453</td> <td>\$1500</td> <td>2453</td> <td>\$750</td> <td>Petitions to revive unintentionally abandoned application</td> <td>\$</td> </tr> <tr> <td colspan="6" style="text-align: center;"><b>PATENT MAINTENANCE</b></td> </tr> <tr> <td>1551</td> <td>\$900</td> <td>2551</td> <td>\$450</td> <td>Due at 3.5 years</td> <td>\$</td> </tr> <tr> <td>1552</td> <td>\$2300</td> <td>2552</td> <td>\$1150</td> <td>Due at 7.5 years</td> <td>\$</td> </tr> <tr> <td>1553</td> <td>\$3800</td> <td>2553</td> <td>\$1900</td> <td>Due at 11.5 years</td> <td>\$</td> </tr> <tr> <td colspan="4"></td> <td>Other Fee (specify) 1631/2631 Basic National Stage Fee</td> <td>\$150.00</td> </tr> <tr> <td colspan="4"></td> <td>Other Fee (specify) 1641/2641 National Stage Search Fee</td> <td>\$250.00</td> </tr> <tr> <td colspan="4"></td> <td>Other Fee (specify) 1633/2633 National Stage Examination Fee</td> <td>\$100.00</td> </tr> </tbody> </table>		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	<b>MISCELLANEOUS</b>						1801	\$790	2801	\$395	Request for continued examination (RCE)	\$	1806	\$180			Submission of an IDS	\$	1814	\$130	2814	\$65	Statutory disclaimer	\$	8021	\$40			Recordation of assignment per property	\$ 40.00	<b>TRADEMARK</b>						6001/7001			\$335	Application for registration, per class	\$	6002/7002			\$100	Amendment to Allege Use, per class	\$	6003/7003			\$100	Statement of Use, per class	\$	6004/7004			\$150	Request for six-month extension of time, per class	\$	6205/7205			\$100	\$8 affidavit, per class	\$	6208/7208			\$200	\$15 affidavit, per class	\$	6201/7201			\$400	Application for renewal, per class	\$	6403/7403			\$100	Ex parte appeal, per class	\$	<b>PETITION</b>						1462			\$400	Petitions to Director (Group I)	\$	1463			\$200	Petitions to Director (Group II)	\$	1464			\$130	Petitions to Director (Group III)	\$	1452	\$500	2452	\$250	Petitions to revive unavoidably abandoned application	\$	1453	\$1500	2453	\$750	Petitions to revive unintentionally abandoned application	\$	<b>PATENT MAINTENANCE</b>						1551	\$900	2551	\$450	Due at 3.5 years	\$	1552	\$2300	2552	\$1150	Due at 7.5 years	\$	1553	\$3800	2553	\$1900	Due at 11.5 years	\$					Other Fee (specify) 1631/2631 Basic 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<td>1590</td> <td>2254</td> <td>795</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td>1255</td> <td>2160</td> <td>2255</td> <td>1080</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td colspan="6" style="text-align: center;"><b>APPEAL</b></td> </tr> <tr> <td>1401</td> <td>500</td> <td>2401</td> <td>250</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td>1402</td> <td>500</td> <td>2402</td> <td>250</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td>1403</td> <td>1000</td> <td>2403</td> <td>500</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td colspan="6" style="text-align: center;"><b>CLAIMS</b></td> </tr> <tr> <td>1614</td> <td>200</td> <td>2614</td> <td>100</td> <td>Independent claims in excess of 3</td> <td>\$</td> </tr> <tr> <td>1615</td> <td>50</td> <td>2615</td> <td>25</td> <td>claims in excess of 20</td> <td>\$</td> </tr> <tr> <td colspan="4">Other Fee (specify) 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6002/7002			\$100	Amendment to Allege Use, per class	\$																																																																																																																																																																																																																																																																																
6003/7003			\$100	Statement of Use, per class	\$																																																																																																																																																																																																																																																																																
6004/7004			\$150	Request for six-month extension of time, per class	\$																																																																																																																																																																																																																																																																																
6205/7205			\$100	\$8 affidavit, per class	\$																																																																																																																																																																																																																																																																																
6208/7208			\$200	\$15 affidavit, per class	\$																																																																																																																																																																																																																																																																																
6201/7201			\$400	Application for renewal, per class	\$																																																																																																																																																																																																																																																																																
6403/7403			\$100	Ex parte appeal, per class	\$																																																																																																																																																																																																																																																																																
<b>PETITION</b>																																																																																																																																																																																																																																																																																					
1462			\$400	Petitions to Director (Group I)	\$																																																																																																																																																																																																																																																																																
1463			\$200	Petitions to Director (Group II)	\$																																																																																																																																																																																																																																																																																
1464			\$130	Petitions to Director (Group III)	\$																																																																																																																																																																																																																																																																																
1452	\$500	2452	\$250	Petitions to revive unavoidably abandoned application	\$																																																																																																																																																																																																																																																																																
1453	\$1500	2453	\$750	Petitions to revive unintentionally abandoned application	\$																																																																																																																																																																																																																																																																																
<b>PATENT MAINTENANCE</b>																																																																																																																																																																																																																																																																																					
1551	\$900	2551	\$450	Due at 3.5 years	\$																																																																																																																																																																																																																																																																																
1552	\$2300	2552	\$1150	Due at 7.5 years	\$																																																																																																																																																																																																																																																																																
1553	\$3800	2553	\$1900	Due at 11.5 years	\$																																																																																																																																																																																																																																																																																
				Other Fee (specify) 1631/2631 Basic National Stage Fee	\$150.00																																																																																																																																																																																																																																																																																
				Other Fee (specify) 1641/2641 National Stage Search Fee	\$250.00																																																																																																																																																																																																																																																																																
				Other Fee (specify) 1633/2633 National Stage Examination Fee	\$100.00																																																																																																																																																																																																																																																																																
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																
<b>EXTENSION OF TIME FEES</b>																																																																																																																																																																																																																																																																																					
1251	120	2251	60	Extension for reply within first month	\$																																																																																																																																																																																																																																																																																
1252	450	2252	225	Extension for reply within second month	\$																																																																																																																																																																																																																																																																																
1253	1020	2253	510	Extension for reply within third month	\$																																																																																																																																																																																																																																																																																
1254	1590	2254	795	Extension for reply within fourth month	\$																																																																																																																																																																																																																																																																																
1255	2160	2255	1080	Extension for reply within fifth month	\$																																																																																																																																																																																																																																																																																
<b>APPEAL</b>																																																																																																																																																																																																																																																																																					
1401	500	2401	250	Notice of Appeal	\$																																																																																																																																																																																																																																																																																
1402	500	2402	250	Filing a brief in support of an appeal	\$																																																																																																																																																																																																																																																																																
1403	1000	2403	500	Request for oral hearing	\$																																																																																																																																																																																																																																																																																
<b>CLAIMS</b>																																																																																																																																																																																																																																																																																					
1614	200	2614	100	Independent claims in excess of 3	\$																																																																																																																																																																																																																																																																																
1615	50	2615	25	claims in excess of 20	\$																																																																																																																																																																																																																																																																																
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SUBTOTAL: LEFT COLUMN		\$ 0.00		SUBTOTAL: RIGHT COLUMN		\$540.00																																																																																																																																																																																																																																																																															
SUBMITTED BY				Complete (if applicable)																																																																																																																																																																																																																																																																																	
Typed or Printed Name		Robert E. Bushnell, Esq.		Reg. Number		27,774																																																																																																																																																																																																																																																																															
Signature		Date		17 April 2006		Deposit Account User ID																																																																																																																																																																																																																																																																															

REB/ny

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.